

FIG. 1

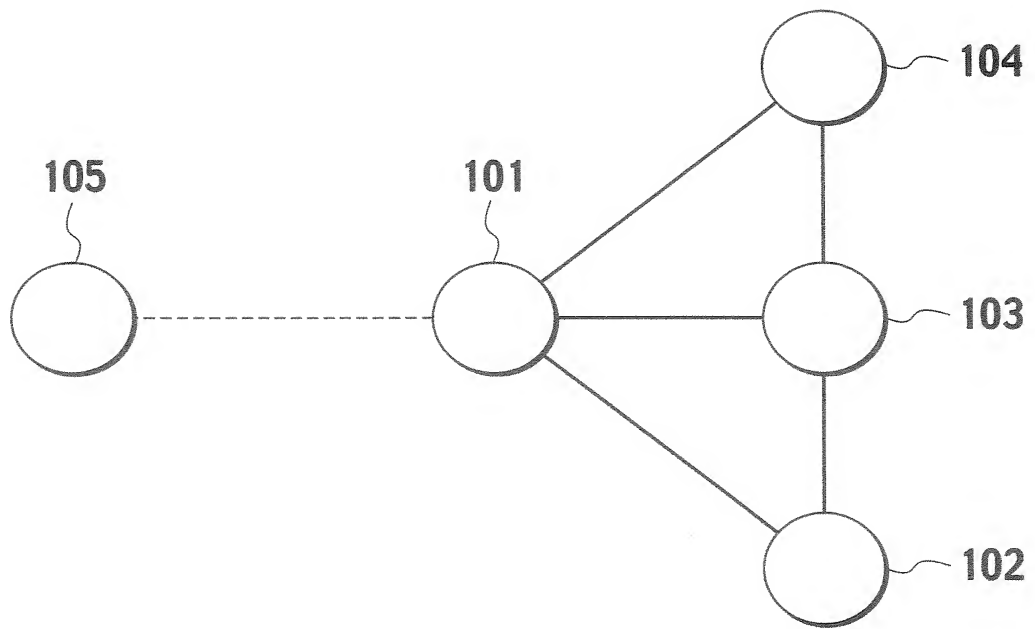


FIG. 2

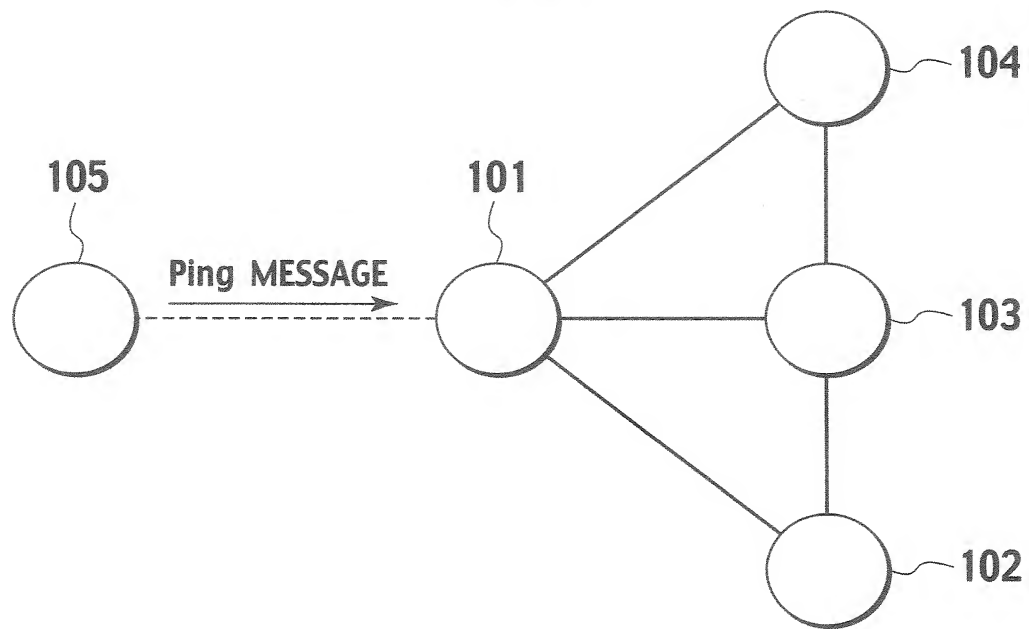


FIG. 3

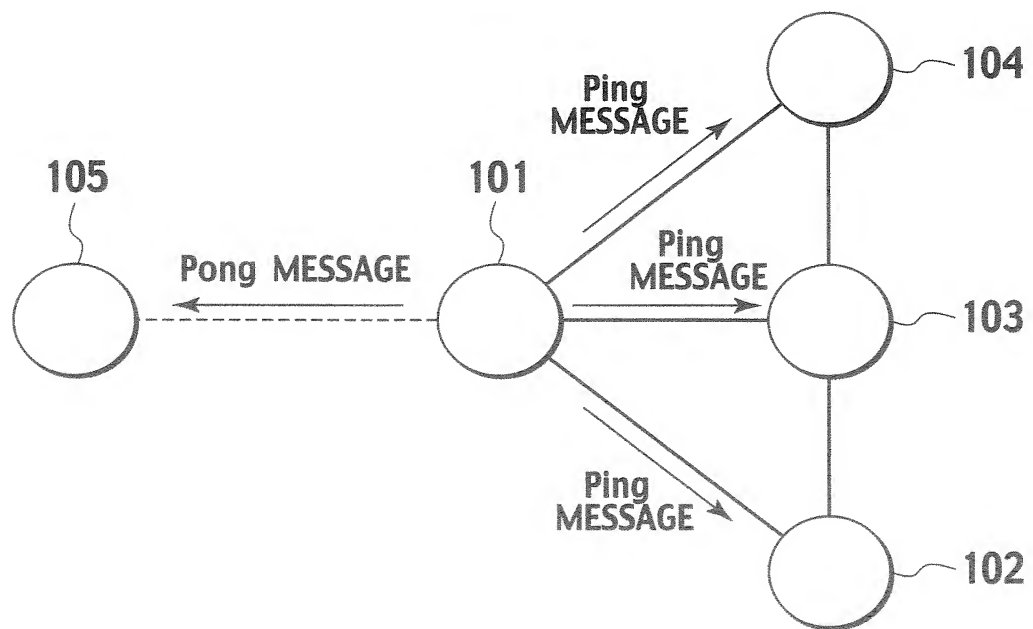


FIG. 4

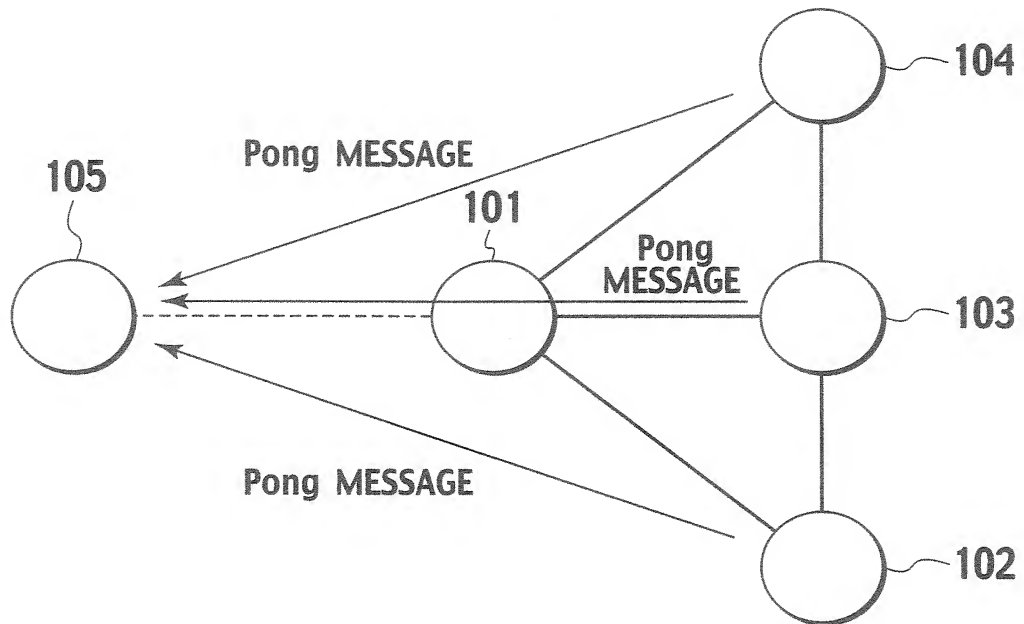


FIG. 5

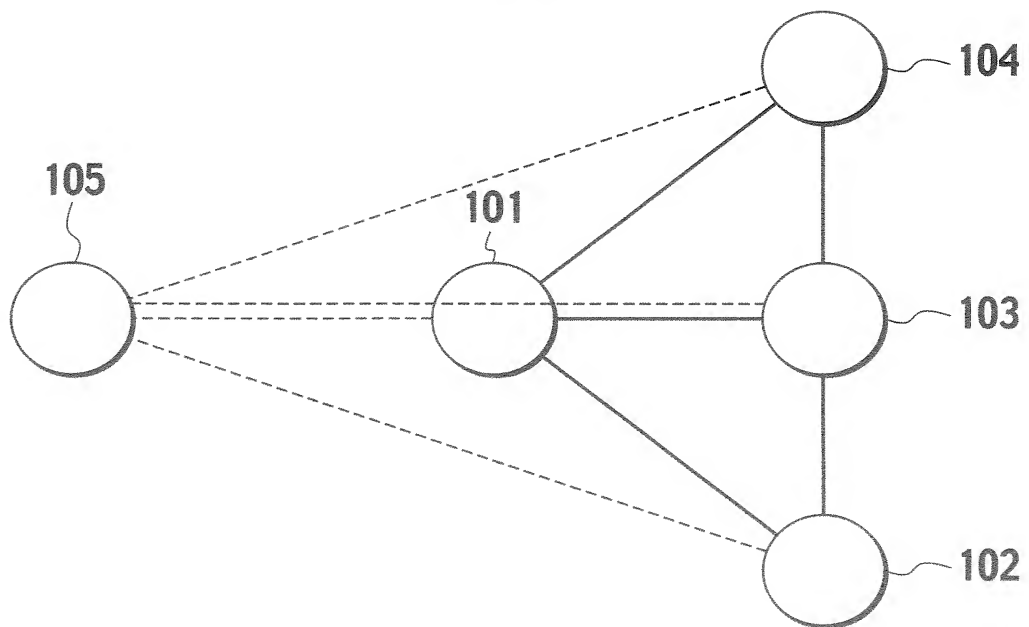


FIG. 6A

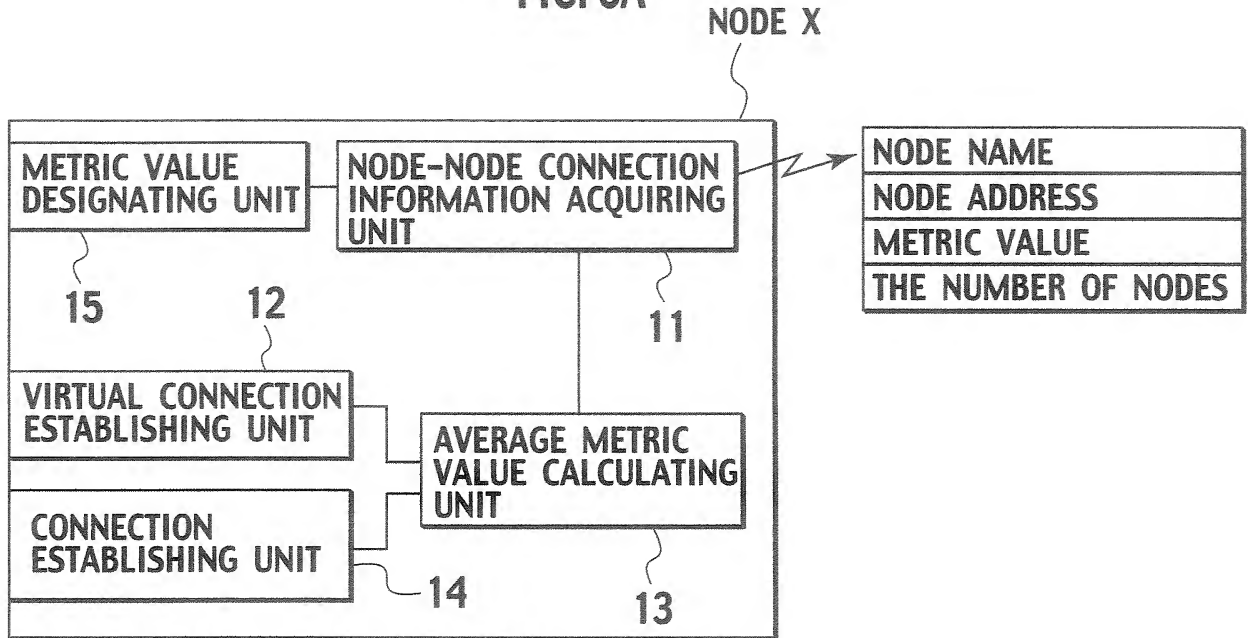


FIG. 6B

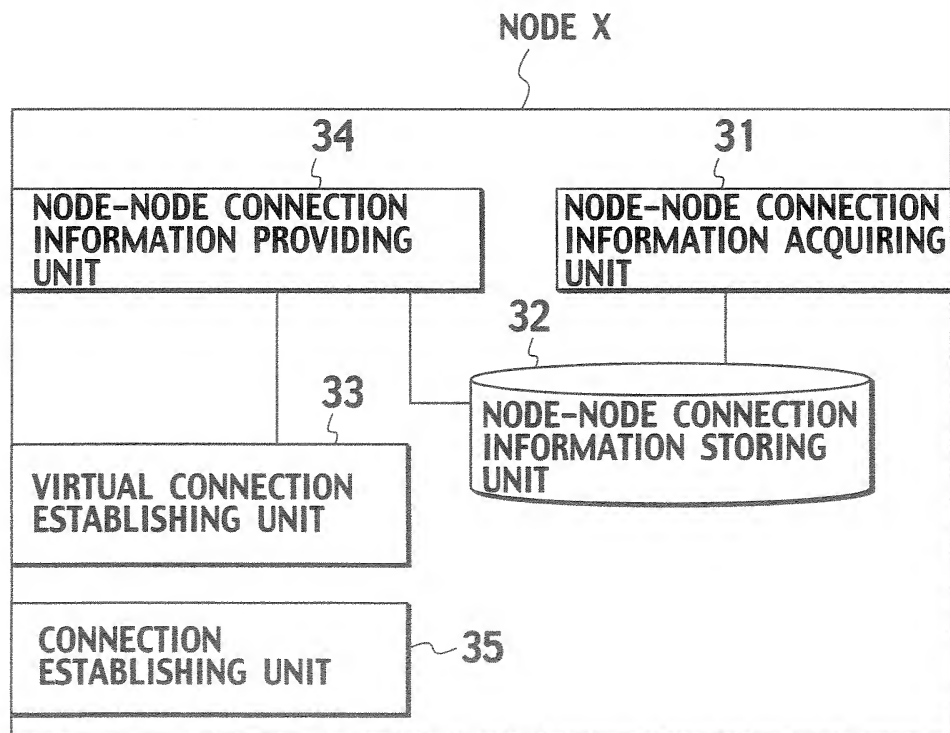


FIG. 7

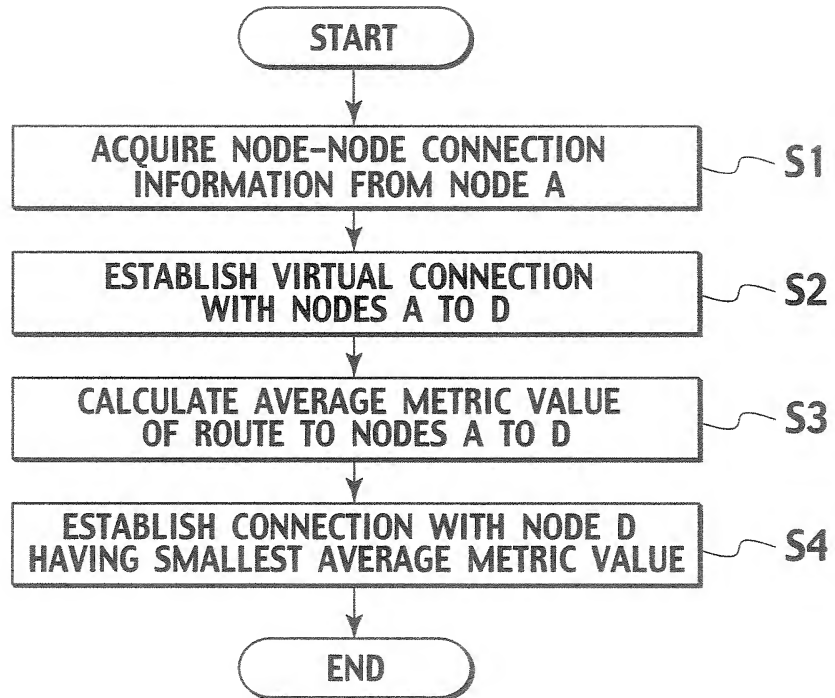


FIG. 8

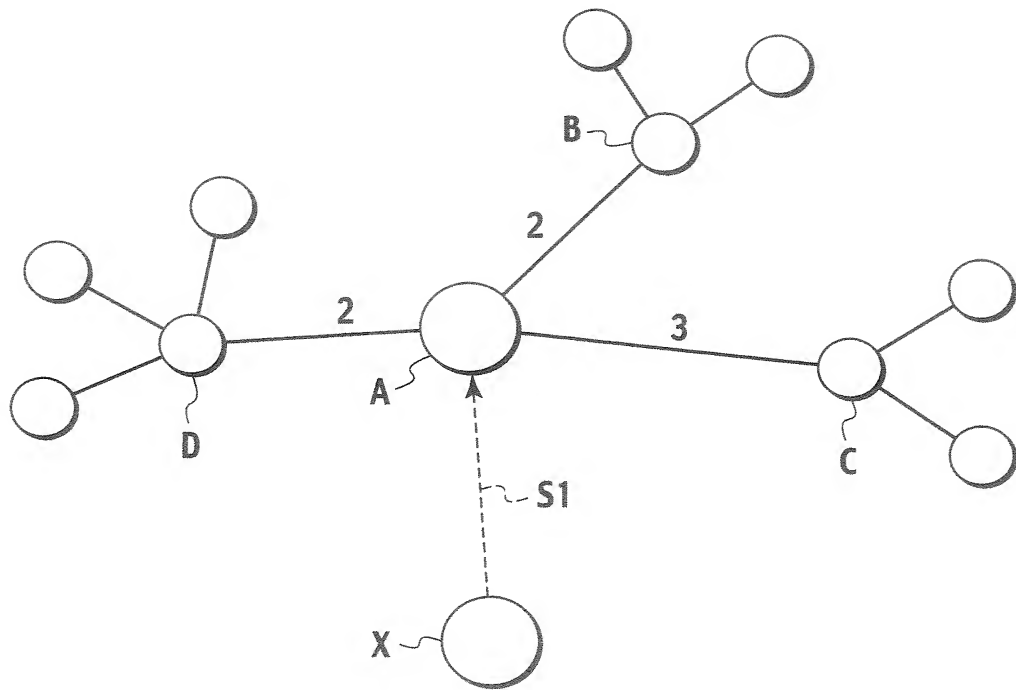


FIG. 9

| NODE NAME | NODE ADDRESS | METRIC VALUE | THE NUMBER OF NODES |
|-----------|--------------|--------------|---------------------|
| NODE B    | BIP          | 2            | 2                   |
| NODE C    | CIP          | 3            | 2                   |
| NODE D    | DIP          | 2            | 3                   |

FIG. 10

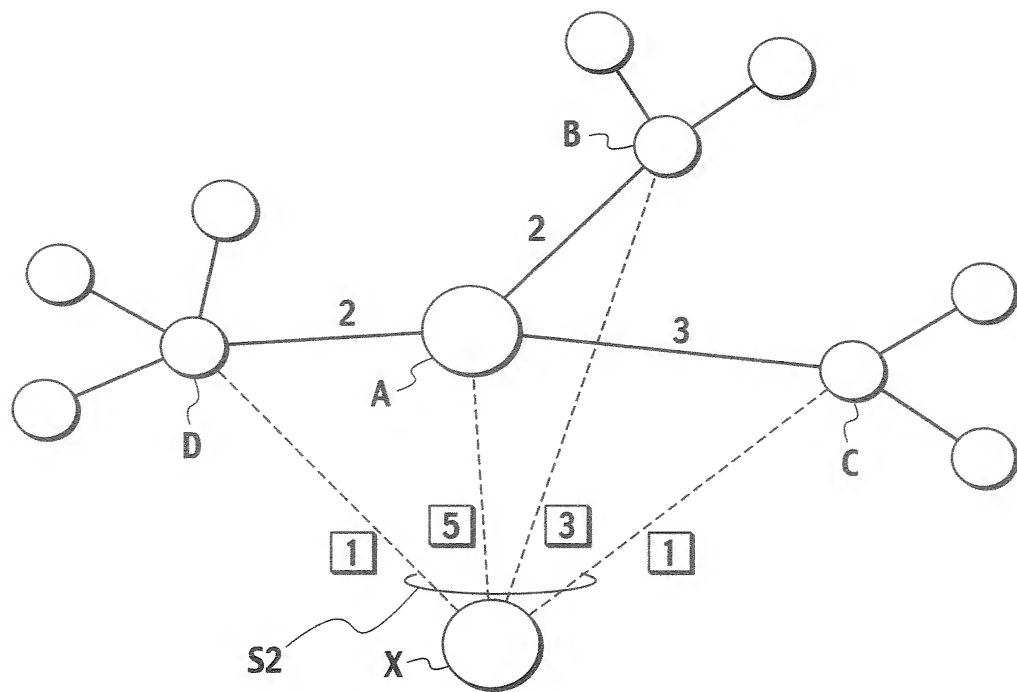


FIG. 11

| NODE NAME | METRIC VALUE | THE NUMBER OF NODES | ROUTE NAME |
|-----------|--------------|---------------------|------------|
| NODE D    | 1            | 3                   | #D1        |
| NODE A    | 1+2          | 0                   | #A1        |
| NODE B    | 1+2+2        | 2                   | #B1        |
| NODE C    | 1+2+3        | 2                   | #C1        |

FIG. 12

| NODE NAME | METRIC VALUE | THE NUMBER OF NODES | ROUTE NAME |
|-----------|--------------|---------------------|------------|
| NODE A    | 5            | 0                   | #A2        |
| NODE D    | 5+2          | 3                   | #D2        |
| NODE B    | 5+2          | 2                   | #B2        |
| NODE C    | 5+3          | 2                   | #C2        |



FIG. 13

| NODE NAME | METRIC VALUE | THE NUMBER OF NODES | ROUTE NAME |
|-----------|--------------|---------------------|------------|
| NODE B    | 3            | 2                   | #B3        |
| NODE A    | 3+2          | 0                   | #A3        |
| NODE D    | 3+2+2        | 3                   | #D3        |
| NODE C    | 3+2+3        | 2                   | #C3        |

FIG. 14

| NODE NAME | METRIC VALUE | THE NUMBER OF NODES | ROUTE NAME |
|-----------|--------------|---------------------|------------|
| NODE C    | 1            | 2                   | #C4        |
| NODE A    | 1+3          | 0                   | #A4        |
| NODE B    | 1+3+2        | 2                   | #B4        |
| NODE D    | 1+3+2        | 3                   | #D4        |

FIG. 15

$$V_i = \frac{\sum_{i=1}^n (V_{Mi} \times N_i)}{\sum_{i=1}^n N_i}$$

- $n$  : THE NUMBER OF NODES
- $V_{Mi}$  : METRIC VALUE OF ROUTE FROM NODE X TO NODE i
- $N_i$  : THE NUMBER OF NODES ADJACENT TO NODE i + 1
- $V_i$  : AVERAGE METRIC VALUE OF ROUTE FROM NODE X TO NODE i VIA VIRTUAL CONNECTION i

FIG. 16

NODE A

$$V_a = \frac{7 \times 4 + 5 \times 1 + 7 \times 3 + 8 \times 3}{4 + 1 + 3 + 3} = \frac{78}{11}$$

NODE B

$$V_b = \frac{7 \times 4 + 5 \times 1 + 3 \times 3 + 8 \times 3}{4 + 1 + 3 + 3} = \frac{59}{11}$$

NODE C

$$V_c = \frac{6 \times 4 + 4 \times 1 + 6 \times 3 + 1 \times 3}{4 + 1 + 3 + 3} = \frac{50}{11}$$

NODE D

$$V_d = \frac{1 \times 4 + (1+2) \times 1 + (1+2+2) \times 3 + (1+2+3) \times 3}{4 + 1 + 3 + 3} = \frac{40}{11}$$

FIG. 17

